NS75 CSA Triplex LLDPE Service Drop. ACSR Neutral - Messenger

Aluminum Conductors With Linear Low Density Polyethylene Insulation.

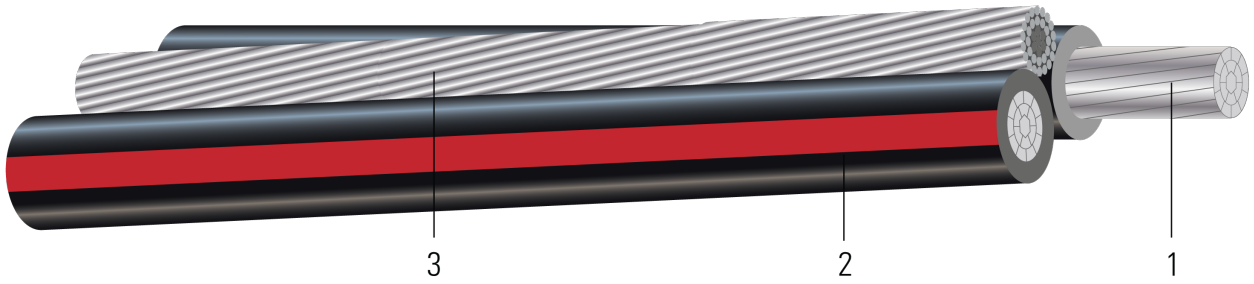

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Conductors are stranded, compact 1350-H19 aluminum
2. **Insulation:** Linear Low Density Polyethylene (LLDPE)
3. **Messenger:** ACSR Neutral

APPLICATIONS AND FEATURES:

Primarily used for 120 volt overhead service applications such as street lighting, outdoor lighting, and temporary service for construction. To be used at voltages of 600 volts phase-to-phase or less and at conductor temperatures not to exceed 75°C for low density polyethylene (LLDPE) insulated conductors.

SPECIFICATIONS:

- ASTM B230 Aluminum, 1350-H19 Wire for Electrical Purposes
- ASTM B400 Standard Specification for Compact Round Concentric-Lay-Stranded, Aluminum 1350 Conductors
- CSA 22.2 No. 129 Neutral Supported Cable
- ICEA S-76-474 Standard for Neutral-Supported Power Cable Assemblies with Weather-Resistant Extruded Insulation Rated 600V

Table 1 – Weights and Measurements

Stock Number	Phase Cond. Size	Phase Strand	Dia. Over Phase Conductor	Phase Insul. Thickness	Dia. Over Phase Insulation	Neutral Cond. Size	Neutral Strand	Approx. OD	Approx. Weight
	AWG/Kcmil	No.	inch	mil	inch	AWG/Kcmil	No.	inch	lb/1000ft
617283	4	7	0.225	45	0.564	6	1	0.654	145
616215	2	7	0.283	45	0.683	2	1	0.773	254
617284	2	7	0.283	45	0.683	4	1	0.773	220
617285	1/0	7	0.362	60	0.865	2		0.985	354
616216	1/0	7	0.362	60	0.865	1/0		0.985	408
616217	2/0	7	0.405	60	0.951	2/0		1.071	504
616220	4/0	7	0.512	60	1.165	4/0		1.285	777

All dimensions are nominal and subject to normal manufacturing tolerances

TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

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Table 2 – Electrical and Engineering Data

Phase Cond. Size	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	GMR	Allowable Ampacity In Air 75/90°C
AWG/Kcmil	Ω/1000ft	Ω/1000ft	Ω/1000ft	ft	Amp
4	0.424	0.528	0.048	0.084	115
2	0.266	0.331	0.045	0.105	150
2	0.266	0.331	0.045	0.105	150
1/0	0.167	0.208	0.044	0.139	205
1/0	0.167	0.208	0.044	0.139	205
2/0	0.133	0.166	0.043	0.156	235
4/0	0.084	0.105	0.041	0.197	315

Notes:
1. DC resistances include a 1% length factor for plexing.
2. Inductive reactance assumes the neutral is carrying current.
3. Phase conductors assumed to be reverse lay stranded, compressed construction.
4. Phase spacing assumes cables are touching.
5. Resistances shown are for the phase conductor only.
6. Ampacity based on conductor temperature of 75°; ambient temperature of 40°C; emissivity 0.9; 2 ft./sec. wind in sun.

Neutral Code Word

Size	Code Word	OD (inches)
#6	Bass	0.182
#4	Pike	0.229
#2	Carp	0.290
1/0	Sole	0.365
2/0	Hake	0.410
4/0	Scup	0.517

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